

**RESTORATION PATH CALCULATION CONSIDERING SHARED-RISK LINK
GROUPS IN MESH NETWORKS**

ABSTRACT OF THE DISCLOSURE

5 A method for determining a restoration path for a new service in a mesh network
involves selecting between candidate restoration paths corresponding to a primary path for
the new service based on the shared-risk link groups (SRLGs) associated with links in the
primary path. The method includes, for each of a plurality of candidate restoration paths
associated with the primary path, (1) determining whether the primary path requires any
10 additional restoration bandwidth to be reserved on any link of the restoration path based on
whether, for each link of the restoration path, the primary path is SRLG-disjoint from each
other primary path that is protected by that link, (2) generating a path cost for the restoration
path, where the path cost is a function of whether any additional restoration bandwidth is
required; and (3) selecting the restoration path for the new service based on the path cost.